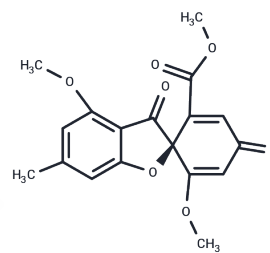


## Trypacidin

### Chemical Properties

CAS No. :	1900-29-4
Formula:	C <sub>18</sub> H <sub>16</sub> O <sub>7</sub>
Molecular Weight:	344.319
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



### Biological Description

Description	Trypacidin is a fungal metabolite originally isolated from <i>A. fumigatus</i> . It is active against <i>B. subtilis</i> and <i>M. bovis</i> (MICs = 12.5 and 1.25 µg/ml, respectively), as well as <i>T. cruzi</i> and <i>T. gondii</i> (MICs = 5-10 and 10-20 µg/ml, respectively). It reduces viability and induces lysis of A549 human lung cancer cells (IC <sub>50</sub> s = 7.4 µM for both). Trypacidin increases survival in a mouse model of <i>T. gondii</i> infection when administered in six doses of 12.5 mg/kg each.
Targets(IC <sub>50</sub> )	Others, Parasite

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9043 mL	14.5214 mL	29.0428 mL
5 mM	0.5809 mL	2.9043 mL	5.8086 mL
10 mM	0.2904 mL	1.4521 mL	2.9043 mL
50 mM	0.0581 mL	0.2904 mL	0.5809 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

- Balan, J., Ebringer, L., Nemeč, P., et al. Antiprotozoal antibiotics. II. Isolation and characterization of trypacidin, a new antibiotic, active against *Trypanosoma cruzi* and *Toxoplasma gondii*. *Antibiot. (Tokyo)* 16:157-160 (1963)
- Song, Z., Liu, Y., Gao, J., et al. Antitubercular metabolites from the marine-derived fungus strain *Aspergillus fumigatus* MF029. *Nat. Prod. Res.* 1-8 (2019)
- Gauthier, T., Wang, X., Dos Santos, J.S., et al. Trypacidin, a spore-borne toxin from *Aspergillus fumigatus*, is cytotoxic to lung cells. *PLoS One* 7(2):e29906 (2012)

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